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for Health and Environmental Sciences
1090 Elkton Road, P.O. Box 50
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April 3, 2013

Via Federal Express

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Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1201 Constitution Ave., NW
Washington, DC 20004



Dear 8(e) Coordinator:

Mixed decanoyl octanoyl glycerides or Caprylic/capric triglyceride
CAS # 73398-61-5

This letter is to inform you of the results of a local lymph node assay (LLNA) with the above referenced test mixture.

The objective of this study was to evaluate the potential of test mixture to produce a dermal sensitization response in mice using the local lymph node assay (LLNA). Two groups of 5 female CBA/JHsd mice were dosed for 3 consecutive days with 0% (vehicle) or 100% on both ears. Propylene glycol (PG) was used as the vehicle. One group of 5 female mice was dosed for 3 consecutive days with 25% hexylcinnamaldehyde (HCA) in PG as a positive control. On test day 5 of the assay, mice received ³H-thymidine by tail vein injection and were sacrificed approximately 5 hours later. The cell proliferation in the draining auricular lymph nodes of the ears from the test substance group was then evaluated and compared to the vehicle group. An increase in cell proliferation measurement and a stimulation index (SI) of greater than 3.0 was observed at 100% of the test mixture when compared to the vehicle group. The EC3 value (the estimated concentration required to induce a threshold positive response, i.e., SI = 3) for the test mixture under the conditions of this study was not calculable. A 25% concentration of the positive control, HCA, produced a dermal sensitization response in mice. Under the conditions of this study, the test mixture produced a dermal sensitization response in mice.

Given that the use of this type of chemical in skin care products is without human incident, the relevance of this data to human exposure conditions is probably irrelevant (International Journal of Toxicology, 23 (Suppl. 2): 55-94, 2004).

This information is submitted in accordance with current guidance issued by EPA indicating EPA's interpretation of Section 8(e) of the Toxic Substances Control Act or, where it is not clear that reporting criteria have been met, it is submitted as a precautionary measure and because it is information in which EPA may have an interest.

Sincerely,

S. Satheesh Anand, Ph.D., DABT
Senior Research Toxicologist
SSA/DH: jhh
(302) 366-5314



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